

## Milestone 1

RAapp

Doug, Griffin, Mitch, Emma

Overview:

Tool	Technology	Process Model
<b>VS code</b> - IDE <b>Google docs</b> - provide documentation <b>Github</b> - version control	<b>Python</b> - programming Language (versatile programming language often used in online development) <b>Selenium</b> - framework <b>Flutter</b> - framework <b>Firebase</b> - app development platform <b>Github</b> - version control	Incremental Model

### Key Tools:

- Microsoft Visual Studio Code, Used as an IDE, to write source code for RA app
  - Reason: Has a lot of extensions for a variety of software that we will be working with like git. It is also an easy to use environment and will help us have our main focus on creating the app instead of learning a brand new IDE.
- Github, is used for pushing and deploying different builds of the app online
  - Reason being: so that we can keep track of the versions and have an external source to keep the project in. TA and Professor can keep track of the current state of development (Project's progress).
- Google Docs, is used to provide documentation for the user.
  - Reason being: we can write key information for the user, so that he or she can know how to interact with the app. Google Docs contains many tools, such as using screenshots and words to describe how things are used, so the variety will help get the point across to the user. Google Docs also have a save as a pdf that we can use so each member can have a local copy on their computer.

### Technologies:

- Python is critical to our project because it has a very large set of libraries that we can use to our advantage. Such as the libraries that assist us in developing a web-based app like Django and Selenium.
- We are also choosing Firebase because it shows real time data changes, this is helpful for working on a team with a lot of collaborators. This is also good for our client because they will need access to up to date data across campus (when one person changes, it should be shown immediately). Firebase also allows us to more easily grow our client base.

- Flutter is good for our clients as well. Most housing administrators lack technology skills- as demonstrated in their difficulty using Qualtrics surveys- because of this, having a framework that allows UI widgets will allow us to build user-friendly applications.

### **Process Model**

- This is a project that can be decomposed, meaning that we can break our project into multiple steps. This allows us to reduce the stress from taking on a large project all at once and means we can split up tasks amongst members to ensure efficiency.
- In addition, ensuring we have a working model step-by-step would be helpful for our developmental process. This process will allow for feedback and for team members to stay up to date on each other's work.
- We are aware of the drawbacks that it needs good planning and design, however we believe our team can work well to plan the expectations for this job.
- Incremental works well for an RA app because we have specific components that are easily identified– ex) “Calendar”, “Intentional Interactions”, etc

**This is what I think are the appropriate tools, technologies and the model that is necessary for me to get the job done as I envisioned it (for now).**